



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

CIPO ONE

1 8 TO THINKE I KIND THE COLUMN IN 10 TO BE COLUMN AND THE COLUMN AND THE COLUMN AND THE COLUMN AND THE COLUMN

(43) International Publication Date 14 June 2001 (14.06.2001)

PCT

(10) International Publication Number WO 01/41760 A2

- (51) International Patent Classification7: . A61K 31/415, 9/14, 9/51
- (21) International Application Number: PCT/US00/32434
- (22) International Filing Date: 6 December 2000 (06.12.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/169,856

8 December 1999 (08.12.1999) US

- (71) Applicant (for all designated States except US): PHAR-MACIA CORPORATION [US/US]; Corporate Patent Dept., P.O. Box 5110, Chicago, IL 60680 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KARARLI, Tugrul, T. [US/US]; 8334 N. Kildare, Skokie, IL 60076 (US). KONTNY, Mark, J. [US/US]; 2343 Huntington Lakes Drive, Libertyville, IL 60048 (US). DESAI, Subhash [US/US]; 1011 Greenwood Avenue, Wilmette, IL (US).

HAGEMAN, Michael, J. [US/US]; 5262 South 12th Street, Portage, MI 49024 (US). HASKELL, Royal, J. [US/US]; Kalamazoo, MI (US).

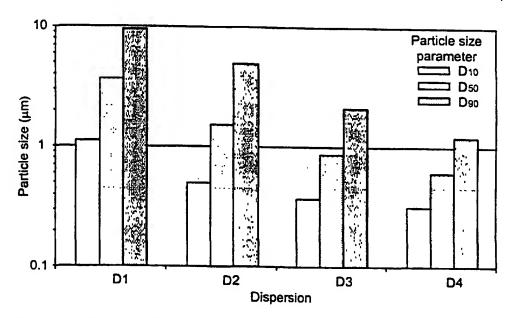
- (74) Agents: FORBES, James, C. et al.; Pharmacia Corporation, P.O. Box 5110, Chicago, IL 60680 (US).
- (81) Designated States (national): AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

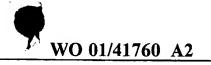
 Without international search report and to be republished upon receipt of that report.

[Continued on next page]

(54) Title: CYCLOOXYGENASE-2 INHIBITOR COMPOSITIONS HAVING RAPID ONSET OF THERAPEUTIC EFFECT



(57) Abstract: Pharmaceutical compositions are provided comprising one or more orally deliverable dose units, each comprising a selective cyclooxygenase-2 inhibitory drug of low water solubility in a therapeutically effective amount, wherein the drug is present in the form of solid particles, about 25 % to 100 % by weight of which are smaller than 1 µm. The compositions are useful in treatment or prophylaxis of cyclooxygenase-2 mediated conditions and disorders and have particular advantages where rapid onset of therapeutic effect is desired.





For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.